

What is claimed is:

1           1. An information processing device configured with at  
2   least one interface section enabling a wake-up instruction  
3   for starting up operationally stopped functional units in a  
4   power-off state or a suspend state, a man-machine interface,  
5   a memory, and a processor, connected by a chipset having a  
6   bus control function, the information-processing device  
7   characterized in that:

8           operational mode for the functional units when started  
9   up from either said power-off state or said suspend state  
10   being a normal operational mode use-enabling the functional  
11   units in their entirety including the man-machine interface,  
12   and an exclusive operational mode use-enabling some of the  
13   functional units on starting up from either said power-off  
14   state or said suspend state, including said interface  
15   section having executed a wake-up instruction, said memory,  
16   said processor and said chipset; wherein

17           said normal operation mode and said exclusive  
18   operational mode are selected between by said interface  
19   section having executed a wake-up instruction; and

20           when said exclusive operational mode is  
21   terminated, the information-processing device goes to  
22   its pre-start-up state, either said power-off state or  
23   said suspend state.

1           2. An information-processing device as set forth in  
2 claim 1, characterized in that data changed in the exclusive  
3 operational mode and data change recognition flags  
4 indicating data has been changed are stored in a  
5 predetermined memory area different from a memory area for  
6 storing data used in the normal operation mode.

1           3. An information-processing device as set forth in  
2 claim 1, characterized in that:

3           start-up time is shorter and power consumption is lower  
4 for said exclusive operational mode than for said normal  
5 operational mode; and further

6           said normal operation mode and said exclusive  
7 operational mode are started up selectively or exclusively.

1           4. An information-processing device as set forth in  
2 claim 1, characterized in being configured to select the  
3 exclusive operational mode, and to supply operational power  
4 to and perform information processing on only resources used  
5 in the exclusive operational mode, when the information-  
6 processing device is started up from a designated said  
7 interface unit or said input/output device.

1           5. An information-processing device according to claim  
2 1, characterized in having:

3           an operation system for said normal operation mode, and

4           an operation system for said exclusive operational

5 mode;

6 the information-processing device therein being  
7 configured to switch between said operation system for the  
8 normal operation mode and said operation system for the  
9 exclusive operational mode according to conditions for  
10 starting-up from said power-off state and said suspend  
11 state.

1 6. An information-processing device as set forth in  
2 claim 5, characterized in that the designated said interface  
3 unit is provided with a radio transmission-reception  
4 function;

5 the information-processing device therein being  
6 configured to set an exclusive operational mode flag when  
7 the designated said interface unit via the radio  
8 transmission-reception function receives a wake-up signal in  
9 the suspend state, for causing a start-up process for said  
10 operation system for said exclusive operational mode to be  
11 carried out.

1 7. An information-processing device configured for  
2 selectively use-enabling functional units thereof from  
3 operationally stopped power-off or suspended states, the  
4 information processing device comprising:

5 at least one interface section enabling a wake-up  
6 instruction for starting-up the functional units of the  
7 information-processing device from the power-off or  
8 suspended states;

9 a man-machine interface;  
10 a memory;  
11 a processor; and  
12 a chipset connecting the interface section, the man-  
13 machine interface, the memory and the processor, said  
14 chipset in cooperation with said memory and said processor  
15 having a bus control function for bringing operational mode  
16 of the information-processing device functional units when  
17 started up from either said power-off state or said suspend  
18 state into one of  
19 a normal operational mode use-enabling the  
20 functional units in their entirety including the man-  
21 machine interface, and  
22 an exclusive operational mode use-enabling some of  
23 the functional units on starting up from either said  
24 power-off state or said suspend state, including said  
25 interface section having executed a wake-up  
26 instruction, said memory, said processor and said  
27 chipset; wherein  
28 said interface section executing a wake-up  
29 instruction selects between said normal operation mode  
30 and said exclusive operational mode; and  
31 when said exclusive operational mode is  
32 terminated, the information-processing device goes to

one of said power-off state and said suspend state as its pre-start-up state.

8. An information-processing device configured with interface units, input/output devices, memory, a display unit and a central processing unit, connected by a chipset having a bus control function, wherein operational mode when the information-processing device is started up from either said power-off state or said suspend state being a normal operation mode use-enabling functions of the information-processing device in their entirety as information processing functions, or an exclusive operational mode use-enabling some functions of the information-processing device as information processing functions; the information-processing device therein characterized in that:

said normal operation mode and said exclusive operational mode are selected between according to start-up conditions.

9. An information-processing device as set forth in claim 8, characterized in that data changed in the exclusive operational mode and data change recognition flags indicating data has been changed are stored in a predetermined memory area different from a memory area for storing data used in the normal operation mode.

1        10. An information-processing device as set forth in  
2 claim 8, characterized in that:

3        start-up time is shorter and power consumption is lower  
4 for said exclusive operational mode than for said normal  
5 operational mode; and further

6        said normal operation mode and said exclusive  
7 operational mode are started up selectively or exclusively.

1        11. An information-processing device as set forth in  
2 claim 8, characterized in being configured to select the  
3 exclusive operational mode, and to supply operational power  
4 to and perform information processing on only resources used  
5 in the exclusive operational mode, when the information-  
6 processing device is started up from a designated said  
7 interface unit or said input/output device.

1        12. An information-processing device according to claim  
2 8, characterized in having:

3        an operation system for said normal operation mode, and  
4        an operation system for said exclusive operational  
5 mode;

6        the information-processing device therein being  
7 configured to switch between said operation system for the  
8 normal operation mode and said operation system for the  
9 exclusive operational mode according to conditions for  
10 starting-up from said power-off state and said suspend  
11 state.

1        13. An information-processing device as set forth in  
2 claim 12, characterized in that the designated said  
3 interface unit is provided with a radio transmission-  
4 reception function;  
5        the information-processing device therein being  
6 configured to set an exclusive operational mode flag when  
7 the designated said interface unit via the radio  
8 transmission-reception function receives a wake-up signal in  
9 the suspend state, for causing a start-up process for said  
10 operation system for said exclusive operational mode to be  
11 carried out.

1        14. A control method for an information-processing  
2 device configured with interface units, an input/output  
3 devices, a memory, a display unit and a central processing  
4 unit, connected by a chipset having a bus control function,  
5 characterized in that  
6        operational mode when the information-processing device  
7 is started up from either said power-off state or said  
8 suspend state goes into a normal operation mode use-enabling  
9 functions in their entirety as information processing  
10 functions, or into an exclusive operational mode use-  
11 enabling some functions as information processing functions;  
12 the control method therein including the step of:  
13        selecting between said normal operation mode and said  
14 exclusive operational mode according to start-up conditions.

1 15. An information-processing device control method as  
2 set forth in claim 14, wherein:

3 said exclusive operational mode is selected according  
4 to start-up conditions from a designated said interface unit  
5 or said input/output device;

6 the control method therein further characterized in  
7 including the step of executing information processing in  
8 accordance with said start-up conditions.

1 16. An information-processing device control method as  
2 set forth in claim 14, wherein:

3 the information-processing device has an operation  
4 system for said normal operation mode, and an operation  
5 system for said exclusive operational mode;

6 the control method therein further characterized in  
7 including the step of control-switching between said  
8 operation system for the normal operation mode and said  
9 operation system for the exclusive operational mode  
10 according to conditions for starting-up from said power-off  
11 state and said suspend state.

1 17. A recording medium storing a control program for an  
2 information-processing device configured with interface  
3 units, input/output devices, memory, a display unit and a  
4 central processing unit, connected by a chipset having a bus  
5 control function, the control-program storing recording



6 medium characterized in that thereon is stored a control  
7 program including:

8 a process for executing a normal operation mode use-  
9 enabling functions of the information-processing device in  
10 their entirety as information processing functions;

11 a process for executing an exclusive operational mode  
12 use-enabling some functions of the information-processing  
13 device as information processing functions; and

14 a process for selecting said normal operation mode  
15 according to normal start-up conditions when the  
16 information-processing device is started up from either a  
17 power-off state or a suspend state, and for selecting said  
18 exclusive operational mode according to start-up conditions  
19 from a designated said interface unit or said input/output  
20 device.

1 18. An information-processing device configured with  
2 interface units, input/output devices, memory, a display  
3 unit and a central processing unit, connected by a chipset  
4 having a bus control function, characterized by:

5 means for executing a normal operation mode use-  
6 enabling functions of the information-processing device in  
7 their entirety as information processing functions;

8 means for executing an exclusive operational mode use-  
9 enabling some functions of the information-processing device  
10 as information processing functions; and

11 means for selecting said normal operation mode  
12 according to normal start-up conditions when the  
13 information-processing device is started up from either a  
14 power-off state or a suspend state, and for selecting said  
15 exclusive operational mode according to start-up conditions  
16 from a designated said interface unit or said input/output  
17 device.